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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/715,600	11/17/2000	James A. Schinnerer	10005282-1	6675

7590 10/06/2003

HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
P.O. Box 272400  
Fort Collins, CO 80527-2400

EXAMINER
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RAHMJOO, MANUCHER

ART UNIT	PAPER NUMBER
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2676

DATE MAILED: 10/06/2003

9

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/715,600

Applicant(s)

SCHINNERER ET AL.

Examiner

Mike Rahmjoo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 22 September 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                             | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1- 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Garcia, US Patent 5,510,832, hereinafter, Garcia.

As per claims 1,11,15, and 17 Garcia teaches receiving the active stereo video data containing the right channel pixel data and the left channel pixel data corresponding to the image to be rendered see for example column 6 lines 16- 38; re-sequencing (field displacement and offsetting) the right channel pixel data and the left channel pixel data see for example claim 7b and in column 13 lines 45- 59; and simultaneously outputting corresponding frames of the right channel pixel data and the left channel pixel data for displaying the image to be rendered in passive stereo see for example column 6 lines 17- 32.

As per claims 2 and 12 Garcia teaches a frame rate of the pixel data simultaneously output for displaying the image to be rendered in passive stereo is approximately one half of a

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frame rate of the pixel data of the active stereo video data see for example column 11 lines 1-15 and column 12 lines 1-11.

As per claims 3 and 18 Garcia teaches receiving the active stereo video data from multiple digital video data streams, each of the multiple digital video data streams being provided by a graphics pipeline, each graphics pipeline being configured to process pixel data corresponding to at least a portion of the image to be rendered see for example in column 11 lines 56-67 and figure 5 through stream of sequential video frames.

As per claims 4 and 13 Garcia teaches providing a first left channel frame buffer, a second left channel frame buffer, a first right channel frame buffer, and a second right channel frame buffer; and wherein the step of re-sequencing the right channel pixel data and the left channel pixel data comprises the step of: allocating the right channel pixel data and the left channel pixel data to the first left channel frame buffer, the second left channel frame buffer, the first right channel frame buffer, and the second right channel frame buffer see for example column 12 lines 11-34 through sequential frames of data being buffered.

As per claims 5, 14, 16 and 19 Garcia teaches buffering a first frame of the right channel pixel data; buffering a first frame of the left channel pixel data; simultaneously providing the first frame of the right channel pixel data and the first frame of the left channel pixel data for displaying the image to be rendered; determining whether a second frame of the right channel pixel data and a second frame of left channel pixel data are ready for simultaneously providing; and if the second frame of the right channel pixel data and the second frame of left channel pixel data are not ready for simultaneously providing, again simultaneously providing the first frame of the right channel pixel data and the first frame of the left channel pixel data see for example column 12 lines 11-34 while the next input frame data is being acquired, the previously acquired and stored frames are displayed through sequential frames of data which

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are buffered.

As per claim 6 Garcia teaches receiving a first of the multiple digital video data streams containing three dimensional pixel data corresponding to the image to be rendered; and receiving a second of the multiple digital video data streams containing two dimensional pixel data corresponding to the image to be rendered in column; and combining the two-dimensional pixel data and the three-dimensional pixel data see for example column 5 lines 20- 37.

As per claim 7 Garcia teaches replacing at least a portion of the pixel data provided by the second of the multiple digital video data streams with at least a portion of the pixel data provided by the first of the multiple digital video data streams see for example column 6 lines 4-15 and column 11 lines 25- 47.

As per claim 8 Garcia teaches utilizing chroma- key values for allocating the right channel pixel data and the left channel pixel data see for example the abstract and column 9 lines 63- 67 and column 10 lines 1- 3.

As per claims 9 and 10 Garcia teaches utilizing over scanned information contained in the active stereo video data for allocating the right channel pixel data and the left channel pixel data and one of various left and right channel buffers see for example column 11 lines 25- 47 and column 12 lines 12- 34.

### ***Response to Arguments***

Applicant's arguments filed 09/22/2003 have been fully considered but they are not persuasive.

On page 10 and line 18, Applicant's argues the definition of the term "passive stereo" as "refereeing to the presentation of simultaneous channels".

On line 21 of the same page applicant further argues "passive stereo is facilitated by the use of headgear to allow each eye of the viewer to view only one of the simultaneously displayed channels of video".

On page 11 and line 22, applicant argues "converting active stereo to passive stereo video data".

The examiner respectfully disagrees as to none of the cited limitations of applicant's argument appear in the claim language as stated above.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure US Patent 6,400,374, 6,351,280, 5,790,086, 5,523,886, 6,466,205, 5,742,333, 6,400,361, and 6,067,098.

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

### **Inquiry**

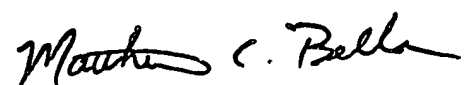
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Rahmjoo whose telephone number is (703) 305- 5658. The examiner can normally be reached on 6:30- 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on (703) 308- 6829. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872- 9314 for regular communications and (703) 872- 9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305- 4750.

Mike Rahmjoo

October 2, 2003

  
MATTHEW C. BELLA  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600